

PROJECT NUMBER: 1333  
PROJECT TITLE: Semiworks Process Control  
PROJECT LEADER: D. A. Phan  
PERIOD COVERED: November, 1988

A. Objective: Evaluate and revise the process control and data acquisition system to improve processing performance and production quality.

B. Results:

Hauni HT Steam Tunnel Installation (Oliver) - Continue to support Dr. Cho's program to evaluate the Hauni steam tunnel. Modifications to the weighbelt at the inlet of the tunnel will be performed the week of December 5 to increase its speed and reduce tobacco bed depth. This is to provide better tobacco feed to the tunnel. Other instruments were installed to monitor the spray steam temperature and pressure, and tobacco temperature at the discharge of the tunnel and the inlet of the Adt dryer.

Temperature Control System for Scandia Overwrappers (Osmalov/Phan/Sims) Additional mechanical modifications to one Scandia at the Stockton St. factory were completed. Initial results indicate that significant improvement in pack-seal quality has been obtained. Further evaluation is being conducted by factory personnel.

Second Aftercut Flavor Cylinder (Phan/Sims) - Electrical and control installation for the flavor system and associated conveyors were completed and checked out. The system is ready to accommodate further flavor application improvement being conducted by the Semiworks Process Development group.

Vacuum Conditioner Data Highway Connection (Sims) - Connection of the Provox data highway to the stand-alone Provox system at the vacuum conditioner panel was completed and checked out. This will allow better maintenance of conditioner control software from the central system, and opportunity of trending some important process variables at that location.

Automatic Damper System for The Adt Dryer (Sims/Medek) - Work is underway to provide an automatic system for remote switching of the inlet and exhaust air dampers from the control room for co-current or counter-current air flow modes. Automatic dampers were installed and checked out. Other solenoid valves for the hood pressure control loop will be installed and checked out the week of December 12.

C. Plans:

Complete as-built documentation for the second aftercut flavor system. Complete the remaining items for the Adt dryer automatic damper system, and the Hauni steam tunnel infeed weighbelt. Continue the development of the Onspec control software and qualification of the Computrac moisture analyzer. Continue providing electrical plant engineering support to the Semiworks and conduct routine QA functions.